

Outgoing  
M/039/0029 S/039/0001  
Peter Brinton <peterbrinton@utah.gov>

4214

## Trace Mine 1 - LMO (M/039/0029, S/039/0001) - permitting update and completeness review

1 message

Peter Brinton &lt;peterbrinton@utah.gov&gt;

Fri, Oct 3, 2014 at 1:04 PM

To: Jim Phillips &lt;jim@azomite.com&gt;

Cc: Lynn Kunzler &lt;LYNNKUNZLER@utah.gov&gt;, Paul Baker &lt;paulbaker@utah.gov&gt;

Hi Jim,

There is some reluctance here to review a large mine Notice for a proposed mine that will not disturb more than 10 acres, as shown in your maps and text. If you think you will keep your active (ungraded, unseeded) disturbance under 10 acres for the foreseeable future, the Division would prefer that you continue operating under the small mine Notice, and that the large mine permitting action be cancelled or postponed. If, in the foreseeable future, you will want to have more than 10 disturbed acres (not regraded) at any one time, this should be shown on your maps, and large mine permitting would definitely need to continue.

When you get a chance, please let me know what you think. We want to make sure that what happens will be in your best interest.

Please see the attached completeness review of your large mine Notice of Intent. As we discussed, there is additional information required by the large mining operation rules that have not been included in your most recent Notice prior to approval as a large mining Notice. This completeness review is general, and more detailed comments will be needed if you want to be permitted as a large mining operation. If you have specific questions about any of this, please to call me.

So you are aware, your small mining operation is adequately bonded, and the maps submitted for the large mining operation would be adequate to update your approved small mining operation. Your small mine Notice form would need to be replaced with the attached 7-page form.

Peter

--

Peter Brinton  
Environmental Scientist/Engineer II  
Utah Division of Oil, Gas & Mining  
Office Phone: 801-538-5258  
Days: M - Th, Every Other Friday  
Hours: 7:30am - 5:00pm

---

### 2 attachments

**Completeness List\_Trace Mine 1.doc**

49K

**mr-exp04292014.doc**

63K

# Large Mine Completeness List – Trace Mine 1 - LMO

FIGURES	RULE (R647-4)	Complete	COMMENTS
Operator information, surface and mineral owner information, and lease, project, and claim numbers	104	x	
Base/Location Map(s). Include directions from paved road or known landmark; original (pre-mining) contours (5-foot intervals); includes surface ownership; perennial waters; existing surface or subsurface features within 500 feet; and areas of prior disturbance	105.1	X	
Surface facilities	105.2	X	
Geology map	105.3.16, 106.8	NEEDED	
Deleterious Materials Map – to show the location of any deleterious or acid-forming materials generated and left onsite	110.4	?	Probably not needed. The geology that goes into the geology section should help us determine for sure.
Hydrology – erosion control	105.3 106.8 110	?	Probably not required now. It will be with significant expansion of the active mining area.
Underground and surface development mining maps	106.5	X	Provided maps are adequate at this time.
Postmining reclamation treatments map including postmining cross sections and facilities to be left. Five-foot contour intervals.	105.3 110	X	What you have provided is adequate.
Land Ownership Map – Mineral Rights (not in the rules)	104.3	---	Not specifically required.
<b>To be included in Text – by RULE</b>			
Type of minerals to be mined	106.1	X	
Description of operations, including mining and processing, and identification of deleterious materials	106.2	NEEDED	Need to discuss the on-site crushing in a little more detail.
Acres proposed to be disturbed and/or reclaimed. Must correlate with a map and bonded area.	106.3	X	
Nature and tonnages of ore	106.4	X	
Soils information, including soil type, lab analyses, volumes salvaged, stockpile locations, how protected, how redistributed, and depth of redistribution	106.5 106.6	NEEDED	A soil sample is needed. Contact Lynn Kunzler for specific instructions. 801-538-5310
Vegetation community description and cover levels with a map of communities	106.7	X	Adequate, per Lynn.
Groundwater data, geologic setting	106.8	NEEDED	Both the approximate groundwater depth and a discussion of the geologic setting are needed.
Survey of cultural resources with analysis of effects	109	X	
Impacts to surface and ground water	109.1	NEEDED	Need to re-evaluate based on the groundwater discussion, but it's probably OK as is.
Impacts to habitat and endangered species	109.2	NEEDED?	Contact Lynn Kunzler.
Impacts to existing soil and plant resources	109.3	NEEDED	The text currently identifies the types of plants in the area. The rule requires that impacts to plants and to soil resources be identified.
Impacts to slope stability, erosion, air quality, public safety	109.4	NEEDED	Identify impacts (or lack thereof) in all of these areas. FYI, you will need an air permit with Utah Dept. of Air Quality if you don't have one already. Discuss your berms above the highwall.
Impact mitigation plan	109.5	?	Need to be discussed here, or in 109.1 – 109.4.
Current and postmining land uses	110.1	OK	Could be more clear that the post-mining land use is grazing or wildlife habitat.
Grading plan	110.2		
Surface facilities to remain following reclamation	110.3	X	
Reclamation of deleterious materials	110.4	?	Probably not needed.
Revegetation plan	110.5	X	